S. Cohen, et al. U.S.S.N. Not Assigned Preliminary Amendment Page -2-

REMARKS

Enclosed please find Figure 1 consisting of 1 (one) sheet marked in red to identify the changes thereto. A discussion describing the revisions and the support therefore in the originally filed disclosure is provided below. Also enclosed please find Figure 1 consisting of 1 (one) sheet of the formal drawing for the subject application. In accordance with 37 C.F.R. 1.84(c), identifying indicia are provided on the backside of the sheet.

Applicants respectfully request that, prior to examination, Figure 1 be amended as shown on the marked-up version of Figure 1 and that pages 1 and 2 of the sequence listing be substituted with pages 1 and 2 submitted herewith. Applicants respectfully submit that no new matter is being added by the amendment of this figure and substitute sequence listing.

Figure 1 was originally filed with 9 (nine) residues inadvertently deleted from each row on the right hand side of the figure as indicated in the marked-up version submitted herewith. New Figure 1 sets forth the complete sequence for each organism. Applicants respectfully submit that, with the exception of the *Drosophila* ("fly") sequence, all the sequences in Figure 1 are known in the prior art, as described with genome database citations on page 3, lines 11-14 of the specification. Thus, one of ordinary skill in the pertinent art would have been able to obtain the correct sequences. In addition, the inadvertently omitted residues from the *Drosophila* sequence are described in the originally filed sequence listing in Sequence I.D No.1. Thus, no new matter has been added by virtue of this amendment.

S. Cohen, et al. U.S.S.N. Not Assigned Preliminary Amendment Page -3-

Applicants further request that pages 1 and 2 of the sequence listing be replaced with the substituted pages submitted herewith. The Sequence I.D. No.1 in the original sequence listing was filed with 1 residue (K) inadvertently omitted in the second line of the listing (EIKSLED in the original should read EIKKSLED). This portion of the sequence was given correctly in the second line of the *Drosophila* ("fly") sequence in Figure 1 as originally filed and was also correctly shown in Figure 6B as originally filed. In addition, Sequence I.D. No.2 in the original sequence listing shows the DNA sequence encoding the correct protein, enabling one of ordinary skill in the pertinent art to obtain the correct sequence. Therefore, Applicants respectfully submit that no new matter is being added by the amendment of this sequence listing.

Should the Examiner wish to discuss the above amendment, the undersigned attorney would appreciate the opportunity to do so.

S. Cohen, et al. U.S.S.N. Not Assigned Preliminary Amendment Page -4-

Applicants believe that additional fees are not required for consideration of the within Preliminary Amendment. However, if for any reason a fee is required, a fee paid is inadequate or credit is owed for any excess fee paid, you are hereby authorized and requested to charge Deposit Account No. 04-1105.

Respectfully submitted,

Cara Z. Lowen (Reg. No. 38,227)

Dike, Bronstein, Roberts & Cushman, LLP Intellectual Property Practice Group of

EDWARDS & ANGELL, LLP

P.O. Box 9169 Boston, MA 02209

Telephone: (617) 523-3400 Facsimile: (617) 523-6440

BOS2_167185.1

	1/10	1 5,
Company of the same		10
Figure 1:	multiple sequence alignment	origina
yeast	MSTLIPPPSKKQKKEAQLPREVAIIPKDLPNVSIKFOALDTGDNVGGALR	VPGAISEKOL
c.elegans		VPVDISTNEL
fly		T.bagtttont.
mouse		אחסידותעועוע.
human		VİPVDITPDDI.
frog	MKEDVGRLLIQFKNENGEGLGTPFD	VPLDITPDKL
	* :	: * *:*
yeast	EELLNQLNGTSDDPVPYTFSCTIQGKKASDPVKTIDITDNLYSSLIKPGY	NETEDOTTI.I.
c.elegans	QILCNQLLGSRFCLNNEFSVSGAEIVDSIRKSLEEIDF	ETIKIV
fly	GLICNALLKNEEATPYLFFVGEDEIKKSLEDTLDLASV	DIT-ENVIDIV
mouse	XLVCNALL-AQEEPLPLAFYVHDAEIVSSLGKTLESOSV	-ETEKTVDII
human	QLVCNALL-AQEDPCPLAFFVHDAEIVSSLGKTLESOAV	-ETEKVIDIY
frog	QLVCNALL-QEEDPVPLAFFVQDLEIVTSLDKTLEKQSV	-ETEKVIDII
	: * * : .: .: *	::
		1
yeast	YTPRAVFKVKPVTRSSSAIAGHGSTILCSAFAPHTSSRMVTGAGDNTARI	WDCDTQTPMH
c.elegans fly	YQPQAVFRVRPVTRCSASIPGHGEPVISAQFSPDGRG-LASGSGDQTMRI	DIELELPLH
mouse	YQPQAVFKVRPVTRCTSSMPGHAEAVVSLNFSPDGAH-LASGSGDTTVRL	DLNTETPHF
human	YQPQAVFRVRAVTRCTSS	
froq	-QPQXLFRVRAVTRCTS	
1109	YQPQAVFKVRAVTRCTSSLEGHTEAVISVAFSPTGKY-LASGSGDTTVRF(*: :*:*:.***.::	DLSTETPHF
yeast	TI VOUVNIMUI CUCMODDORIU A MOGNONII DI VIDRIGGO CE COLLEGIO	
c.elegans	TLKGHYNWVLCVSWSPDGEVIATGSMDNTIRLWDPKSGQCLGDALRGHSKV	ITSLSWEPI
fly	TCKSHKSWVLCIAWSPDATKIASACKNGEICIWNAKTGEQIGKTLKRHKQV	IXXLAWQP-
mouse	TCTGHKQWVLCVSWAPDGKRLASGCKAGSIIIWDPETGQQKGRPLSGHKK	INCLAWEPY
human		1
froq	TSKGHTHWVLSIAWSPDGKKLASGCKNSQIFIWDPSTGKQIGKPLTGHSKV	TTWI CWEDI
J	NARDIGENE TO TO THE PROPERTY OF THE PROPERTY O	TIMECMERE
yeast	LVKPGSKPRLASSSKDGTIKIWDTVSRVCQYTMSGHTNSVSCVKWGGQGLI	YSGSHDRTV
c.elegans	ADDGVMCRNMTG	
fly	HRDPECR-KLASASGDGDCRIWDVKLGQCLMNIAGHTNAVTAVRWGGAGLI	YTSSKDRTV
mouse		
human		
frog	HLNPESRY-LASASKDCTIRIWDTVMGQCQKILTSHTQSVTAVKWGGDGLI	YSSSQDRTI
yeast	RVWDINSQGRCINILKSHAHWVNHLSLSTDYALRIGAFDHTGKKPS	TDEELOUIS
c.elegans		IPEEAQKKA
fly	KMWR-AADGILCRTFSGHAHWVNNIALSTDYVLRTGPFHPVKDRSKSHLSI	STEEL OF SA
mouse		
human		
frog	${\tt KAWR-AQDGVLCRTLQGHAHWVNTMALSTDYVLRKGAFNPADASVNPQD}$	MSGSLEVLK
yeast	LENYEKICKKNGNSEEMMVTASDDYTMFLWNPLKSTKPIARMTGHQKLVNH	VARCDDCDV
c.elegans	INRMTGHMQLVNQ	WECDDERI
fly	LKRYQAVCPDEVESLVSCSDDNTLYLWRN-NQNKCVERMTGHQNVVNC	VKYSPDIKI
mouse		
human		
frog	EKALKRSNEVRGQGPERLVSGSEDFTLFLWAPAEEKKPLQRMTGHQALINE	VLFSPDTRI
yeast	IVSASFDNSIKLWDGRDGKFISTFRGHIASVYQVAWSSDCRLLVSCSKDTT	T. KAMMATAN WA
c.elegans	IASASFDKSVKLWCGRTGKYLASFRGHVGPVYQVAWSADSRLLVSGSADST	TVAMDAKIK
fly	IASASFDKSVRLWRASDGQYMATFRGHVQAVYTVAWSADSRLIVSGSKDST	T.KAMGAUJAR TVALETVIV
mouse		
human		
frog	IASASFDKSIKLWDGKTGKFLTSLRGHVSAVYQIAWSADSRLLVSGSSDST	LKVWDSKTK
yeast	KLSVDLPGIKTKLY-VDWSVDGKRVCSGGKDKMVRLWTH	
c.elegans	SLYYDLPGHGDEVFTVDWSPEGTKVVSGGKDKVLKLW	
fly	KLAQELPGHADEVFGVDWAPDGSRVASGGKDKVIKLWAY	Omitted
mouse		ìo
human		147
frog	KLLIDLPGHADEVYSVDWSPDGQRVASGGKDKCLRIWRK	original
		-

Sequence I.D. No.1: Drosophila Notchless protein

MQETDTEQEATPHTIQARLVYTGEEAGPPIDLPAGITTQQLGLICNALLKNEEA
TPYLFFVGEDEIKKSLEDTLDLASVDTENVIDIVYQPQAVFKVRPVTRCTSSMP

GHAEAVVSLNFSPDGAHLASGSGDTTVRLWDLNTETPHFTCTGHKQWVLCV
SWAPDGKRLASGCKAGSIIIWDPETGQQKGRPLSGHKKHINCLAWEPYHRDP
ECRKLASASGDGDCRIWDVKLGQCLMNIAGHTNAVTAVRWGGAGLIYTSSK
DRTVKMWRAADGILCRTFSGHAHWVNNIALSTDYVLRTGPFHPVKDRSKSH
LSLSTEELQESALKRYQAVCPDEVESLVSCSDDNTLYLWRNNQNKCVERMT

GHQNVVNDVKYSPDVKLIASASFDKSVRLWRASDGQYMATFRGHVQAVYT
VAWSADSRLIVSGSKDSTLKVWSVQTKKLAQELPGHADEVFGVDWAPDGSR
VASGGKDKVIKLWAY

Sequence I.D. No. 2: Drosophila Nle cDNA

a attoccaa aaa ATGCAGGAGACGGACACGGAGCAAGAGGCCACGCCACATACGATACAGGCGCCCCGTTTACACGGGCGAGGAAGCCGGCCCGCCAATCGA CCTGCCGGCAGGAATCACTACCCAGCAATTGGGACTGATTTGCAACGCGC TGCTGAAAAACGAGGAAGCCACTCCATATTTGTTTTTCGTGGGCGAGGAT 20 GAGATCAAGAAGAGCCTGGAGGACACGTTGGACTTGGCGTCAGTGGACA CCGAAAACGTGATCGATATTGTGTATCAGCCACAGGCGGTTTTCAAAGTG CGCCCAGTGACAAGATGCACGAGTTCCATGCCGGGACACGCCGAGGCTGT GGTTTCGCTGAATTTCAGCCCGGATGGTGCTCATCTCGCCAGTGGAAGTG GCGACACCACAGTGCGATTGTGGGATCTTAACACAGAGACACCGCACTTC 25 ACCTGCACAGGTCATAAGCAGTGGGTTCTGTGCGTATCCTGGGCTCCGGA TGGCAAACGGTTGGCCAGCGGTTGCAAAGCGGGCTCTATAATCATCTGGG ACCCGGAGACGGGTCAGCAGAAGGGGCGACCCTTGAGTGGGCACAAGAA ACACATCAACTGCCTCGCCTGGGAACCGTATCATCGCGATCCGGAGTGCA GGAAACTTGCTTCCGCCAGTGGAGACGGGGACTGCCGGATTTGGGACGTA 30 AAATTGGGCCAGTGCCTTATGAACATTGCCGGACACACAAATGCTGTGAC AGCAGTGAGATGGGGTGGAGCGGGCCTTATTTATACATCCTCCAAAGATC GCACAGTGAAGATGTGGCGAGCAGCTGATGGAATCTTGTGCCGGACGTTC TCTGGCCAAGCTCACTGGGTAAACAACATTGCGCTGAGCACCGATTACGT CCTGCGCACTGGTCCATTCCATCCGGTGAAGGATCGCTCCAAGAGCCACC

15



TCAGTTTGAGCACTGAGGAATTGCAGGAATCTGCCTTGAAGCGCTACCAG
GCCGTGTGCCCTGACGAGGTGGAGTCGCTGGTTTCCTGTTCGGATGACAA
CACCCTCTATCTGTGGCGGAACAACCAGAACAAGTGCGTTGAGCGCATGA
CAGGGCACCAGAACGTGGTCAACGATGTGAAATATTCGCCGGATGTAAAG
CTAATTGCGTCTGCTTCATTTGACAAGTCAGTGCGTCTGTGGCGAGCCAGC

CTAATTGCGTCTGCTTCATTTGACAAGTCAGTGCGTCTGTGGCGAGCCAGC
GATGGTCAGTACATGGCCACCTTCCGGGGTCATGTGCAGGCTGTTTACAC
GGTTGCCTGGTCCGCGGACTCCCGCTTGATTGTTTCCGGCAGCAAAGACTC
AACTCTAAAAGTATGGAGTGTGCAGACGAAGAAACTGGCACAGGAGCTG
CCTGGACATGCGGATGAGGTGTTCGGAGTGGACTGGGCCCCGATGGCTC
TAGAGTTGCCTCTGGTGGCAAGGACAAAGTTATAAAGCTATGGGCTTATT

49

5

10

DORTHER BENEFIT